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(858-535-9001)

## 1/11

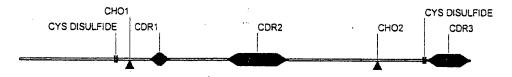
Figure 1. Alignment of Thy-1 and 8E5 VH

EcFv-1.15* 8E5 VH Thyl human Consensus	(1) (1) (1)	MNLAISIALLLTVLÖUSRGQKVTSLTACLVDQSIREDERHENTSSSPI QL SLKL CK S S	50 WM QY
EcFv-1.15* 8E5 VH	(33)	HWVKQRPGQGLEWIGTEDPADSYTSYNQMI	
Thyl human	(51)	E SLTRETKKHVLFGT GVPEHTYRSRT HET SKYHMKVLYLSAFTSKO	
Consensus	(51)	F R GTI D NF KD	
		101	50
EcFv-1.15* 8E5 VH	(67)	ELEVDKPSSTAYMQLSSLTFGDSAVYFCAREGYYYRYYFDYWGHGTT	ΈV
Thyl human	(101)	TYTCALHHSGHSPPISSQNVTVLRDKLVKCECISLLAQNTSWLLLLLE	SI
Consensus	(101)		SL
·		151 161	
EcFv-1.15* 8E5 VH	(117)	SSAKTOPKE	
Thyl human	(151)	<u>SLLQA MOT MSL</u>	
Consensus	(151)	S T L	

Figure 1B. Design of a single Ig domain CDR binding polypeptide based on the Thy-1 structure.

Qvsrgqkvtsltaclvdqslrldcrhentsssnywm Hfsltretkkhvlfgtidpadsytsynqnfkdegtytc Alhhsghsppissqnvtvlrdklvkcegvyyryyfdy

Figure 1C. Diagram of a single Ig domain CDR carrier based on the Thy-1 structure.

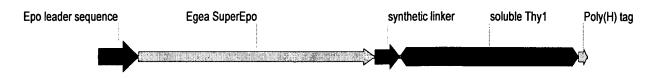


Thy1/8E4 VH synthetic CDR binding polypeptide 111 aa

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## 2/11

## FIGURE 2A



Egea F12 Thy-1 Epo 334 aa

## FIGURE 2B

1	MGVHECPAWL	WLLLSLLSLP	LGLPVLGAPP	RLICDSRVLE	RHLLEAKEAE
51	SITTGCVEDC	SLNENITVPD	SKVNFYAWKR	MEVGQQAVEV	WQGLALLSEA
101	VLRGQALLVI	SSQPWEPLQL	HVDKAVSGLR	SLTTLLRALG	AQKEAISPPD
151	AASAAPLRTI	TADTFRKLFR	VYPNFLRGKL	KFYTGEACRG	GGGGSGGGE
201	FGGGGSQKVT	SLTACLVDQS	LRLDCRHENT	SSSPIQYEFS	LTRETKKHVL
251	FGTVGVPEHT	YRSRTNFTSK	YHMKVLYLSA	FTSKDEGTYT	CALHHSGHSP
301	PISSQNVTVL	RDKLVKCEGI	SLLAQNTSHH	НННН	

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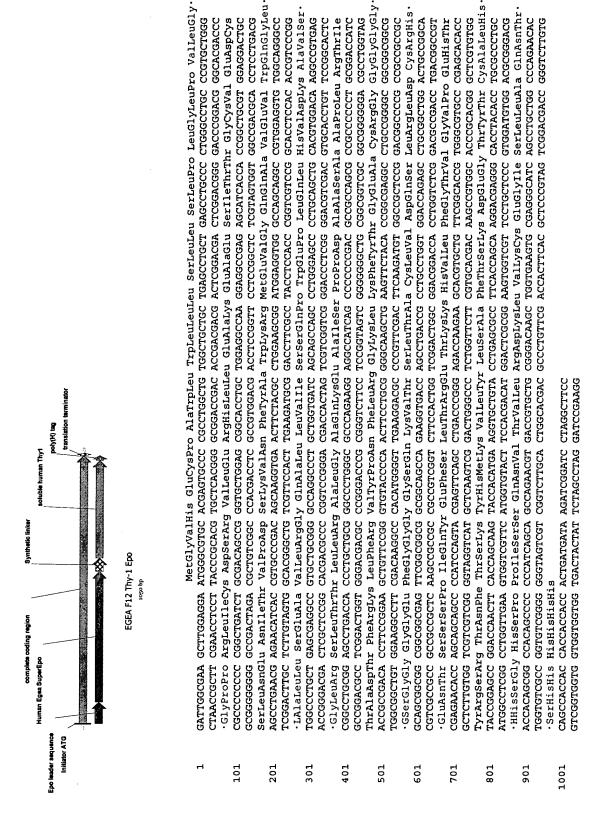
# 3/11

## FIGURE 2C

HindIII

	~~~~	
	M G V H E C P A W L W L L L S L L S L P	
1	GATTGGCGAA GCTTGGAGGA ATGGGCGTGC ACGAGTGCCC CGCCTGGCTG TGGCTGCTGC TGAGCCTGCT GAGCCTGCCC	
	LGLP V LG APP R L I C D S R V L E R H L L E A K	•
81	CTGGGCCTGC CCGTGCTGGG CGCCCCCCC CGGCTGATCT GCGACAGCCG GGTGCTGGAG CGGCACCTGC TGGAGGCCAA	
	· E A E S I T T G C V E D C S L N E N I T V P D S K V N	
161	GGAGGCCGAG AGCATCACCA CCGGCTGCGT GGAGGACTGC AGCCTGAACG AGAACATCAC CGTGCCCGAC AGCAAGGTGA	
	· FYA W KR M E V G Q Q A V E V W Q G L A L L S E A	
241	ACTTCTACGC CTGGAAGCGG ATGGAGGTGG GCCAGCAGGC CGTGGAGGTG TGGCAGGGCC TGGCCCTGCT GAGCGAGGCC	
	V L R G Q A L L V I S S Q P W E P L Q L H V D K A V S	•
321	GTGCTGCGGG GCCAGGCCCT GCTGGTGATC AGCAGCCAGC CCTGGGAGCC CCTGCAGCTG CACGTGGACA AGGCCGTGAG	
	·G L R S L T T L L R A L G A Q K E A I S P P D A A S A	
401	CGGCCTGCGG AGCCTGACCA CCCTGCTGCG GGCCCTGGGC GCCCAGAAGG AGGCCATCAG CCCCCCGAC GCCGCCAGCG	
	· A P L R T I T A D T F R K L F R V Y P N F L R G K L	
481	CCGCCCCCT GCGGACCATC ACCGCCGACA CCTTCCGGAA GCTGTTCCGG GTGTACCCCA ACTTCCTGCG GGGCAAGCTG	
	K F Y T G E A C R G G G G G G G G G G G G G G G G G G	٠
561	AAGTTCTACA CCGGCGAGGC CTGCCGGGGC GGCGGCGGC GCAGCGGCGG CGGCGAG TTCGGCGGCG GCGGCAGCCA	
	·KVT SLTA CLV DQS LRLD CRHENT SSS P	
641	GAAGGTGACC AGCCTGACCG CCTGCCTGGT GGACCAGAGC CTGCGGCTGG ACTGCCGGCA CGAGAACACC AGCAGCAGCC	
	· I Q Y E F S L T R E T K K H V L F G T V G V P E H T	
721	CCATCCAGTA CGAGTTCAGC CTGACCCGGG AGACCAAGAA GCACGTGCTG TTCGGCACCG TGGGCGTGCC CGAGCACACC	
	Y R S R T N F T S K Y H M K V L Y L S A F T S K D E G	
801	TACCGGAGCC GGACCAACTT CACCAGCAAG TACCACATGA AGGTGCTGTA CCTGAGCGCC TTCACCAGCA AGGACGAGGG	
	·TYT CALH HSG HSP PISS QNV TVL RDKL	
881	CACCTACACC TGCGCCCTGC ACCACAGCGG CCACAGCCCC CCCATCAGCA GCCAGAACGT GACCGTGCTG CGGGACAAGC	
	BamHI	
	~~~~	
	· V K C E G I S L L A Q N T S H H H H H + * *	
961	FGGTGAAGTG CGAGGGCATC AGCCTGCTGG CCCAGAACAC CAGCCACCAC CACCACC ACTGATGATA AGATCGGATC	
	BamHI	

1041 CTAGGCTTCC

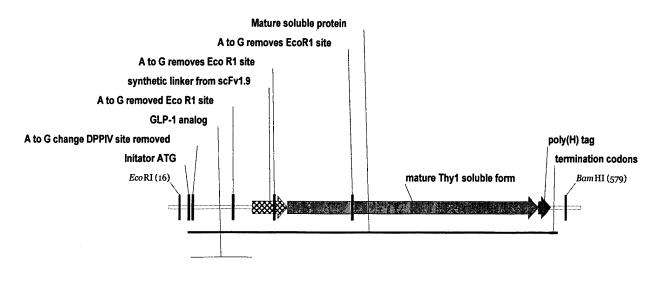


Attorney Client-Matter No.: 66663-026 (P-EA 5191) (858-535-9001)

## 5/11

#### FIGURE 4A

Egea Thy-1\_Glucagon-Like Peptide 1 Non-Immunoglobulin Carrier Polypeptide



EgeaA42 GLP Thy1 Carrier 600 bp

#### FIGURE 4B

176 aa

- 1 MHGEGTFTSD VSSYLEGQAA KEFIAWLVKG RGGGGGSGGG GEFGGGGSQK
- 51 VTSLTACLVD QSLRLDCRHE NTSSSPIQYE FSLTRETKKH VLFGTVGVPE
- 101 HTYRSRTNFT SKYHMKVLYL SAFTSKDEGT YTCALHHSGH SPPISSQNVT
- 151 VLRDKLVKCE GISLLAQNTS HHHHHH

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# 6/11

## FIGURE 4C

EcoR.	ı
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				M	н н	G E	G T	F T	s D V	S S Y	LEGQ
1	AGTCCGGGA	AT TTAAG	AATTC AG	CTGTCCAT	GCACG	GTGAA	GGTACCT	TCA C	CTCTGACGT	TTCTTCTTAC	CTGGAAGGTC
	· A A	K E	FI A	A W L	V K	G R	G G	G (	G S (	G G G	E F G
81	AGGCGGCGA	AA AGAGT	TCATC GO	CGTGGCTGG	TTAAA	GGTCG	TGGTGGT	GGT G	STGGTTCTG	GTGGTGGTGG	TGAGTTCGGT
	G G G	S Q	K V	T S L	T A	. C 1	L V D	Q	S L R	LDC	R H E N ·
161	GGTGGTGGT	TT CTCAG	AAAGT TA	ACCTCTCTG	ACCGC	GTGCC	TGGTTGA	CCA G	CTCTGCGT	CTGGACTGCC	GTCACGAAAA
	· T S S	S P	ΙQ	Y E F	' S	L T	R E	тк	K H V	L F G	T V G V
241	CACCTCTTC	T TCTCC	GATCC AG	TACGAGTT	CTCTC	TGACC	CGTGAAA	CCA A	<b>AAAACACGT</b>	TCTGTTCGGT	ACCGTTGGTG
	. P E	H T	Y R S	RT	N F	T S	K Y	H I	1 K V 1	LYLS	AFT
321	TTCCGGAAC	LA CACCT.	ACCGT TO	TCGTACCA	ACTTC	ACCTC	TAAATAC	CAC A	GAAAGTTC	TGTACCTGTC	TGCGTTCACC
	S K D	E G	T Y	T C A	L H	н з	S G H	S	PPI	SSQI	N V T V ·
101	TCTAAAGAC	G AAGGT	ACCTA CA	CCTGCGCG	CTGCA	CCACT	CTGGTCA	CTC TO	CCCCGATC	TCTTCTCAGA	ACGTTACCGT
	·LRD	KL	V K	CEG	I	S L	L A	QN	T S H	н н н	н н * *
181	TCTGCGTGA	C AAACT	GGTTA AA	TGCGAAGG	TATCT	CTCTG	CTGGCGC.	AGA A	CACCTCTCA	CCACCACCAC	CACCACTGAT
			BamHI								
			~~~~	~~							

AATGAGATCT TGAGGCCGGA TCCGCTTAAG ATCCCGGCAA

SV40 early promoter and origin

pUC origin

neomycin resistance gene

SV40 early polyadenylation signal

pEgea M3

101 201 401 401 501 701 901

T7 promoter/ RNA priming site

CMV promoter

ribosome binding site

bla promoter P3

Beta-lactamase

f1 origin

pEgeaM3

FIGURE 5

# 8/11

.00											
1			14116611AA	TTTT	GATTTAACAA	AAATTTAACG	CGAATTAATT	CTGTGGAATG	TGTGTCAGTT	AGGGTGTGGA	
1101	でないしているでする		( <	*DOE * * DOE *	CIMMAIIGII	TITHWAITEC	GCITAALIAA	GACACCITAC	ACACAGICAA	TCCCACACCT	
1011	からして していて からし エエフタ ひららららら エエフタ ひららららら エエフタ こうしょう		TOCTOTACE	TACCHARGCA	TGCATCTCAA	TTAGTCAGCA	ACCAGGTGTG	GAAAGTCCCC	AGGCTCCCCA	GCAGGCAGAA	
1201	GTATGCAAAG	_	<b>→</b> A	CANCELLICGI	ACGIAGAGIT	AATCAGICGI	TGGTCCACAC	CTTTCAGGGG	TCCGAGGGGT	CGTCCGTCTT	
	CATACGITIC	GTACGTAGAG	; [	GTTGGTATCA	GGGGGGGAT	TGAGGGGGGT	AGGGGGGGG	TTGAGGCGGG	TOASGGGGGG	ATTCTCGCC	
1301	CCATGGCTGA	CTAATTTTTT	TTATTTATGC	AGAGGCCGAG	GCCGCCTCTG	CCTCTGAGCT	ATTCCAGAAG	TAGTGAGGAG	GCTTTTTGG	AGGCCTAGGC	
	GGTACCGACT	GATTAAAAAA	AATAAATACG	TCTCCGGCTC	CGGCGGAGAC	GGAGACTCGA	TAAGGTCTTC	ATCACTCCTC	CGAAAAAACC	TCCGGATCCG	
1401	TTTTGCAAAA	AGCTCGAGGA	TCGTTTCGCA	TGATTGAACA	AGATGGATTG	CACGCAGGTT	CICCGGCCGC	TTGGGTGGAG	AGGCTATTCG	GCTATGACTG	
	AAAACGTTTT	TCGAGCTCCT	AGCAAAGCGT	ACTAACTIGT	TCTACCTAAC	GTGCGTCCAA	GAGGCCGGCG	AACCCACCTC	TCCGATAAGC	CGATACTGAC	
1501	GGCACAACAG	ACAATCGGCT	GCTCTGATGC	CGCCGTGTTC	CGGCTGTCAG	CGCAGGGGCG	CCCGGTTCTT	TTTGTCAAGA	CCGACCTGTC	CGGTGCCCTG	
,	CCGTGTTGTC	TGTTAGCCGA	O	GCGGCACAAG	GCCGACAGTC	GCGTCCCCGC	GGGCCAAGAA	AAACAGTTCT	GGCTGGACAG	GCCACGGGAC	
1601	AATGAACTGC	AGGACGAGGC	Æ,	TCGTGGCTGG	CCACGACGGG	CGTTCCTTGC	GCAGCTGTGC	TCGACGTTGT	CACTGAAGCG	GGAAGGGACT	
	TTACTTGACG	TCCTGCTCCG	TCGCGCCGAT	AGCACCGACC	GGTGCTGCCC	GCAAGGAACG	CGTCGACACG	AGCTGCAACA	GTGACTTCGC	CCTTCCCTGA	
1.01	GGCTGCTATT	GGGCGAAGTG	CCGGGGCAGG	ATCTCCTGTC	ATCTCACCTT	GCTCCTGCCG	AGAAAGTATC	CATCATGGCT	GATGCAATGC	GGCGGCTGCA	
	CCGACGATAA	CCCGCTTCAC	GGCCCCGTCC	TAGAGGACAG	TAGAGTGGAA	CGAGGACGGC	TCTTTCATAG	GTAGTACCGA	CTACGTTACG	CCGCCGACGT	
1801	TACGCTTGAT	CCGGCTACCT	GCCCATTCGA	CCACCAAGCG	AAACATCGCA	TCGAGCGAGC	ACGTACTCGG	ATGGAAGCCG	GTCTTGTCGA	TCAGGATGAT	
	ATGCGAACTA	GGCCGATGGA	CGGGTAAGCT	GGTGGTTCGC	TTTGTAGCGT	AGCTCGCTCG	TGCATGAGCC	TACCTTCGGC	CAGAACAGCT	AGTCCTACTA	
1061	CIGGACGAAG	AGCATCAGGG	GCTCGCGCCA	GCCGAACTGT	TCGCCAGGCT	CAAGGCGCGC	ATGCCCGACG	GCGAGGATCT	CGTCGTGACC	CATGGCGATG	
	GACCIGCITC	TCGTAGTCCC	CGAGCGCGGT	CGGCTTGACA	AGCGGTCCGA	GIICCGCGCG	TACGGGCTGC	CGCTCCTAGA	GCAGCACTGG	GTACCGCTAC	
7007	CCLGCLTGCC	GAATATCATG	0	GCCGCTTTTC	TGGATTCATC	GACTGTGGCC	GGCTGGGTGT	GGCGGACCGC	TATCAGGACA	TAGCGTTGGC	
	GGACGAACGG	CTTATAGTAC	O	CGGCGAAAAG	ACCTAAGTAG	CTGACACCGG	CCGACCCACA	CCCCCTGGCG	ATAGTCCTGT	ATCGCAACCG	
7101	TACCCGTGAT	ATTGCTGAAG	AGCTTGGCGG	CGAATGGGCT	GACCGCTTCC	TCGTGCTTTA	CGGTATCGCC	GCTCCCGATT	CGCAGCGCAT	CGCCTTCTAT	
	ATGGGCACTA	TAACGACTIC	TCGAACCGCC	GCTTACCCGA	CTGGCGAAGG	AGCACGAAAT	GCCATAGCGG	CGAGGGCTAA	GCGTCGCGTA	GCGGAAGATA	
2201	CGCCTTCTTG	ACGAGTICIT	CTGAGCGGGA	CGCACCCCAA	CTTGTTTATT	GCAGCTTATA	ATGGTTACAA	ATAAAGCAAT	AGCATCACAA	ATTTCACAAA	
	GCGGAAGAAC	TGCTCAAGAA	GACTCGCCCT	GCGTGGGGTT	GAACAAATAA	CGTCGAATAT	TACCAATGIT	TATTTCGTTA	TCGTAGTGTT	TAAAGTGTTT	
2301	TAAAGCATTT	TTTTCACTGC	ATTCTAGTTG	TGGTTTGTCC	AAACTCATCA	ATGTATCTTA	TCATGTCTGT	ATACCGTCGA	CCTCTAGCTA	ATGTGAGCAA	
,	ATTTCGTAAA	AAAAGTGACG	TAAGATCAAC	ACCAAACAGG	TTTGAGTAGT	TACATAGAAT	AGTACAGACA	TATGGCAGCT	GGAGATCGAT	TACACTCGTT	
2401	AAGGCCAGCA	AAAGGCCAGG	AACCGTAAAA	AGGCCGCGTT	GCTGGCGTTT	TTCCATAGGC	TCCGCCCCC	TGACGAGCAT	CACAAAAATC	GACGCTCAAG	
	TTCCGGTCGT	TTTCCGGTCC	TIGGCATITI	TCCGGCGCAA	CGACCGCAAA	AAGGTATCCG	AGGCGGGGG	ACTGCTCGTA	GTGTTTTAG	CTGCGAGTTC	
2501	TCAGAGGTGG	CGAAACCCGA	CAGGACTATA	AAGATACCAG	GCGTTTCCCC	CTGGAAGCTC	CCTCGTGCGC	TCTCCTGTTC	CGACCCTGCC	GCTTACCGGA	
,	AGTCTCCACC	GCTTTGGGCT	GTCCTGATAT	TTCTATGGTC	CGCAAAGGGG	GACCTTCGAG	GGAGCACGCG	AGAGGACAAG	GCTGGGACGG	CGAATGGCCT	
7097	TACCIGICG	CCTTTCTCCC	TTCGGGAAGC	GTGGCGCTTT	CTCATAGCTC	ACGCTGTAGG	TATCTCAGTT	CGGTGTAGGT	CGTTCGCTCC	AAGCTGGGCT	
100	ATGGACAGGC	GGAAAGAGGG	AAGCCCTTCG	CACCGCGAAA	GAGTATCGAG	TGCGACATCC	ATAGAGTCAA	GCCACATCCA	GCAAGCGAGG	TTCGACCCGA	
T0/2	GIGIGCACGA	ACCCCCCGIT	CAGCCCGACC	GCTGCGCCTT	ATCCGGTAAC	TATCGTCTTG	AGTCCAACCC	GGTAAGACAC	GACTTATCGC	CACTGGCAGC	
1000	CACACGIGCI	TGGGGGCAA	GICGGGCIGG	CGACGCGGAA	TAGGCCATTG	ATAGCAGAAC	TCAGGTTGGG	CCATTCTGTG	CTGAATAGCG	GTGACCGTCG	
100	AGCCACIGGI	AACAGGATTA	GCAGAGCGAG	GTATGTAGGC	GGTGCTACAG	AGTTCTTGAA	GIGGIGGCCI	AACTACGGCT	ACACTAGAAG	AACAGTATTT	
	TCGGTGACCA	TESTCCTAAT	CGTCTCGCTC	CATACATCCG	CCACGATGTC	TCAAGAACTT	CACCACCGGA	TTGATGCCGA	TGTGATCTTC	TTGTCATAAA	
T063	GGIAICIGCG	CICIGCIGAA	GCCAGITACC	TTCGGAAAAA	GAGTTGGTAG	CTCTTGATCC	GGCAAACAAA	CCACCGCTGG	TAGCGGTTTT	TTTGTTTGCA	
	CCATAGACGC	GAGACGACTT	CGGTCAATGG	AAGCCTTTTT	CTCAACCATC	GAGAACTAGG	CCGTTTGTTT	GGTGGCGACC	ATCGCCAAAA	AAACAAACGT	
TOOS	AGCAGCAGAT	TACGCGCAGA	AAAAAAGGAT	CTCAAGAAGA	TCCTTTGATC	TTTTCTACGG	GGTCTGACGC	TCAGTGGAAC	GAAAACCAGT	TACCAATGCT	
,	TUGICAL	Argegerer	TTTTTCCTA	GAGTICTICI	AGGAAACTAG	AAAAGATGCC		AGTCACCTTG	CTTTTGGTCA	ATGGTTACGA	
707	TAATCAGIGA	GGCACCTATC	TCAGCGATCT	GTCTATTTCG	TICALCCAIA	GTTGCCTGAC	-	GTAGATAACT	ACGATACGGG	AGGCTTACC	
	ATTAGTCACT	CCGTGGATAG	AGTCGCTAGA	CAGATAAAGC	AAGTAGGTAT	CAACGGACTG	AGGGGCAGCA	CATCTATTGA	TGCTATGCCC	TCCCGAATGG	
1075	Arcresce	AGTGCTGCAA	TGATACCGCG	AGACCCACGC	TCACCGGCTC	CAGATTTATC	AGCAATAAAC	CAGCCAGCCG	GAAGGGCCGA	GCGCAGAAGT	
102	りりりりついしてしてい	TCACGACGIT	ACTATIGGCGC	TCTGGGTGCG	AGTGGCCGAG	GTCTAAATAG	TCGTTATTTG	GTCGGTCGGC	CTTCCCGGCT	CGCGTCTTCA	
4 2	5575177155	רווואוריפר	CICCAICCAG	TCIAITAAIT	GITGCCGGGA	AGCTAGAGTA	AGTAGTTCGC	CAGTTAATAG	TTTGCGCAAC	GTTGTTGCCA	

# FIGURE 5 CONT.

# 9/11

	CCAGGACGIT	GAAATAGGCG	CCAGGACGII GAAAIAGGCG GAGGIAGGIC AGAIAAIIAA CAACGGCCCI ICGAICICAI ICAICAAGCG GICAAIIAIC AAACGCGIIG CAACAACGG	AGATAATTAA	CAACGGCCCT	TCGATCTCAT	TCATCAAGCG	GICAATTAIC	AAACGCGTTG	CAACAACGGI
3401	TTGCTACAGG	TTGCTACAGG CATCGTGGTG		CGTTTGGTAT	GGCTTCATTC	TCACGCTCGT CGTTTGGTAT GGCTTCATTC AGCTCCGGTT CCCAACGATC AAGGCGAGTT ACATGATCCC CCATGTTGTG	CCCAACGATC	AAGGCGAGTT	ACATGATCCC	CCATGTTGTG
	AACGATGTCC	AACGAIGICC GIAGCACCAC		GCAAACCATA	CCGAAGTAAG	AGTGCGAGCA GCAAACCATA CCGAAGTAAG TCGAGGCCAA GGGTTGCTAG TTCCGCTCAA TGTACTAGGG GGTACAACAC	GGGTTGCTAG	TTCCGCTCAA	TGTACTAGGG	GGTACAACAC
3501	CAAAAAAGCG	CAAAAAGCG GTTAGCTCCT		GATCGTTGTC	AGAAGTAAGT	TCGGTCCTCC GATCGTTGTC AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT	GTTATCACTC	ATGGTTATGG	CAGCACTGCA	TAATTCTCTT
	GTTTTTCGC	STITITICGC CAAICGAGGA		CTAGCAACAG	TCTTCATTCA	AGCCAGGAGG CTAGCAACAG TCTTCATTCA ACCGGCGTCA CAATAGTGAG TACCAATACC GTCGTGACGT ATTAAGAGAA	CAATAGTGAG	TACCAATACC	GTCGTGACGT	ATTAAGAGAA
3601	ACTGTCATGC	ACTGTCATGC CATCCGTAAG		GTGACTGGTG	AGTACTCAAC	AFGCTTTTCT GIGACTGGIG AGTACTCAAC CAAGTCAIIC IGAGAATAGI GTAIGCGGCG ACCGAGTIGC ICTIGCCCGG	TGAGAATAGT	GTATGCGGCG	ACCGAGITGC	TCTTGCCCGG
	TGACAGTACG	TGACAGTACG GTAGGCATTC		CACTGACCAC	TCATGAGTTG	TACGAAAAGA CACTGACCAC TCATGAGTTG GTTCAGTAAG ACTCTTATCA CATACGCCGC TGGCTCAACG AGAACGGGCC	ACTCTTATCA	CATACGCCGC	TGGCTCAACG	AGAACGGGCC
3701	CGTCAATACG	CGTCAATACG GGATAATACC		GCAGAACTTT	AAAAGTGCTC	GCGCCACATA GCAGAACTTT AAAAGTGCTC ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT	AACGTTCTTC	GGGCGAAAA	CTCTCAAGGA	TCTTACCGCT
	GCAGTTATGC	SCAGTTATGC CCTATTATGG		CGTCTTGAAA	TTTTCACGAG	CGCGGTGTAT CGTCTTGAAA TTTTCACGAG TAGTAACCTT TTGCAAGAAG CCCCGCTTTT GAGAGTTCCT AGAATGGCGA	TTGCAAGAAG	CCCCCTTTT	GAGAGTTCCT	AGAATGGCGA
3801	GTTGAGATCC	GTTGAGATCC AGTTCGATGT		TGCACCCAAC	TGATCTTCAG	AACCCACTCG TGCACCCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC GTTTCTGGGT GAGCAAAAAC AGGAAGGCAA	TTTCACCAGC	GTTTCTGGGT	GAGCAAAAAC	AGGAAGGCAA
	CAACTCTAGG	PACTCTAGG TCAAGCTACA		ACGTGGGTTG	ACTAGAAGTC	TIGGGIGAGC ACGIGGGIIG ACIAGAAGIC GIAGAAAAIG AAAGIGGICG CAAAGACCCA CICGIIITIG ICCIICCGII	AAAGTGGTCG	CAAAGACCCA	CTCGTTTTTG	TCCTTCCGIT
3901	AATGCCGCAA	ATGCCGCAA AAAAGGGAAT		CGGAAATGTT	GAATACTCAT	AAGGGCGACA CGGAAAIGII GAAIACICAI ACICIICCII IIICAAIAII AIIGAAAGCAI IIAICIAGAG GIIAIIGICI	TTTCAATATT	ATTGAAGCAT	TTATCTAGAG	GTIATTGTCT
	TTACGGCGTT	TTACGGCGTT TTTTCCCTTA		GCCTTTACAA	CTTATGAGTA	TICCCGCTGT GCCTTTACAA CTTATGAGTA TGAGAAGGAA AAAGTTATAA TAACTTCGTA AATAGATCTC CAATAACAGA	AAAGTTATAA	TAACTTCGTA	AATAGATCTC	CAATAACAGA

# FIGURE 5 CONT.

TAGCTTAAGC ACGACGAACG CGCAGATACC GCGTCTATGG TGGTCACCGA TCGTGCACAC AGCACGTGTG CGGACAGGTA GCCTGTCCAT CCACCTCTGA CATTAGGCGG GTAATCCGCC TAACTACGAT ATTGATGCTA AGCCGGAAGG

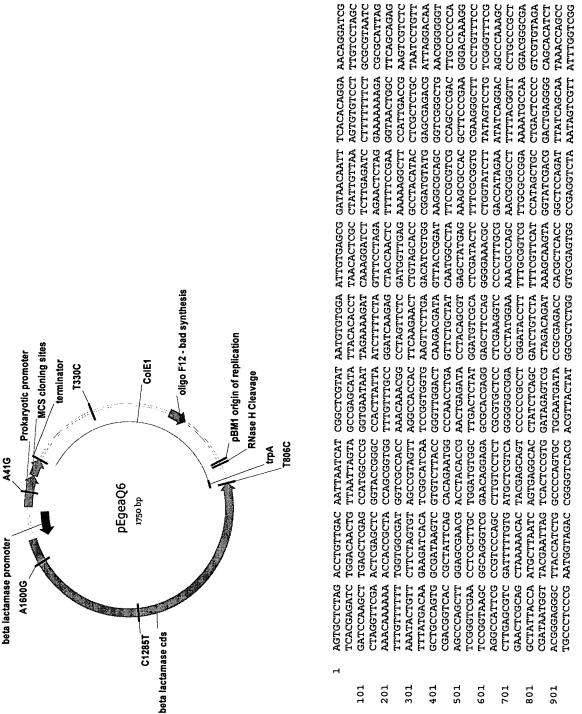
TGCTGCTTGC

ACCAGTGGCT

FIGURE 6

TCGGCCTTCC

GGTGGAGACT



# 11/11

TGCAACTTTA TCCGCCTCCA TCCAGTCTAT TAATTGTTGC CGGGAAGCTA GAGTAAGTAG TTCGCCAGTT AATAGTTTGC ACGTTGAAAT AGGCGGAGGT AGGTCAGATA ATTAACAACG GCCCTTCGAT CTCATTCATC AAGGGGTCAA TTATCAAACG	ALAGGCTACC IGGIGICACG CICGICGITY GGTAFGGCTT CATTCAGCTC CGGTTCCCAA CGATCAAGGC GAGTTACATG TGTCCGTAGC ACCACAGTGC GAGCAGCAAA CCATACCGAA GTAAGTCGAG GCCAAAGGGTT GCTAGGTTCG CTCAAAGTAGAAGAAA	AAGCGGTTAG CTCCTTCGGT CCTCCGATCG TTGTCAGAAG TAAGTTGGCC GCAGTGTTAT CACTCATGGT TATGGCAGCA	TICGCCAATC GAGGAAGCCA GGAGGCTAGC AACAGTCTTC ATTCAACCGG CGTCACAATA GTGAGTACCA ATACCGTCGT CATGCCATCC GTAAGATGCT TTTCTGTGAC TGGTGAGTAC TCAACCAAGT CATTCTGAGA ATAGTGTATG CGGCGACAA	GTACGGTAGG CATTCTACGA AAAGACACTG ACCACTCAIG AGTTGGTTCA GTAGAACTCT TATCACATAC GCCGCTGGCT	ATACGGGATA ATACCGCGCC ACATAGCAGA ACTTTAAAAG TGCTCATCAT TGGAAAACGT TCTTCGGGGC GAAAACTCTC	TATGCCCTAT TATGGCGCGG TGTATCGTCT TGAAATTTTC ACGAGTAGTA ACCTTTTGCA AGAAGCCCCG CTTTTGAGAG	GAICCAGIIC GAIGIAACCC ACTCGIGCIC CCAACIGAIC IICAGCAICI IIIACIIICA CCAGCGIIIC IGGGIGAGCA	CTAGGTCAAG CTACATTGGG TGAGCACGAG GGTTGACTAG AAGTCGTAGA AAATGAAAGT GGTCGCAAAG ACCCACTCGT	CGCAAAAAAG GGAATAAGGG CGACACGGAA AIGIIGAAIA CICATACICI ICCIIIIICA AIAIIAIIGA AGCAIIIIAIC	GCGTTTTTTC CCTTATTCCC GCTGTGCCTT TACAACTTAT GAGTATGAGA AGGAAAAAGT TATAATAACT TCGTAAATAG		
CCA TCCAGTCTAT TAATTGTTGC CGGGAAGGGT AGGTCAGATA ATTAACAACG GCCCTTC	ACG CICGICGITI GGIAIGGCII CAIICAC IGC GAGCAGCAAA CCAIACCGAA GIAAGIC	SGT CCTCCGATCG TTGTCAGAAG TAAGTTC	CCA GGAGGCTAGC AACAGTCTTC ATTCAAC 3CT TTTCTGTGAC TGGTGAGTAC TCAACC	CGA AAAGACACTG ACCACTCATG AGTTGGT	SCC ACATAGCAGA ACTTTAAAAG TGCTCAI	CGG TGTATCGTCT TGAAATTTTC ACGAGTA	CCC ACTCGTGCTC CCAACTGATC TTCAGCA	SGG TGAGCACGAG GGTTGACTAG AAGTCGI	3GG CGACACGGAA ATGTTGAATA CTCATAC	CCC GCTGTGCCTT TACAACTTAT GAGTATG	TAT CTAGAAGGTA	ATA GATCTTCCAT
	CCTTGCAACA ACGGTAACGA TGTCCGTAGC ACCACAGG		IAGGGGIAC AACACGITIT ITCGCCAATC GAGGAAGC CTGCATAAIT CTCTTACTGT CATGCCATCC GTAAGATC	GACGTATTAA GAGAATGACA GTACGGTAGG CATTCTA(	_							TCCCAATAAC AGAGTACTCG CCTATGTATA AACTTACATA GATCTTCCAT
1001 GCCGAGCGC CGGCTCGCC		1201 ATCCCCCA.	1301 CTGCATAA:		1401 GTTGCTCT		TSOT AAGGATCT		TEOL AAAACAGG		1701 AGGGTTAT	TCCCAATA

FIGURE 6 CONT.